

3 Auger and Auger Motor

CAUTION: Auger contains moving parts which may cause bodily harm.

3-1 Fixing an auger jam

- Unplug your stove
- Empty all the fuel from your hopper
- Remove the back rating plate cover. See Removing your back panel section 10-3.
- Using a rubber mallet, tap the auger gently ❶. The auger is located in the hopper.



- While tapping on the auger d), rotate the auger motor clock-wise and counter-clock-wise ❷ until the rotation is smooth.

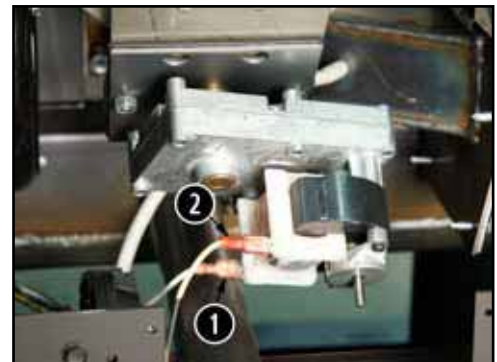
NOTE: If you still have an auger jam, you may need to remove and clean the auger. Please see sections 3-3 and 3-4.



3-2 Testing the Auger Motor

- Unplug your stove.
- Remove the back rating plate cover. See Removing your back panel section 10-3.
- Remove the white ❶ and yellow ❷ wire attached to the auger motor and replace them with an outside power source.

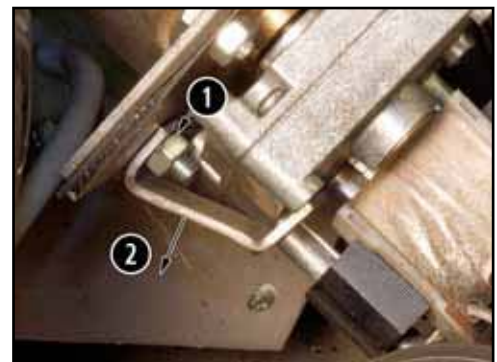
NOTE: If you don't have an extra plug lying around, you may use the white and black wire from the power cord. Plug it directly into the auger motor. Switch the white and yellow wires with the white and black wires respectively.



3-3 Auger and Auger Motor removal

- Unplug your stove
- Empty all the fuel from your hopper.
- Remove the back rating plate cover. See Removing your back panel section 10-3.
- Loosen the 7/16 bolt ❶ holding the stopper ❷ located behind the auger motor.
- Twist the stopper sideways so that it's not holding the auger motor.

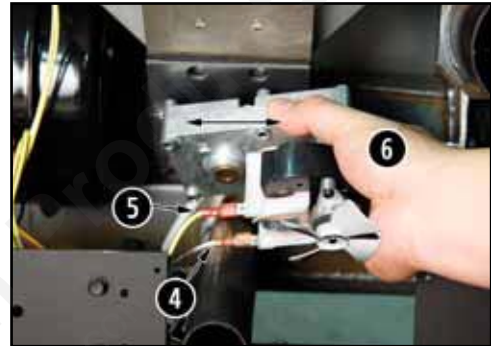
NOTE: If the bolt is too hard to get to, use a needle nose pliers and bend the stopper down ❸. Make sure to re-shape the stopper back to it's original shape afterwards.



- f) Rotate the auger motor **6**, so that the set screw **3** in the hopper is facing up.
- g) Using a 5/16 wrench, remove the set screw **3** located on the shaft of your auger in the hopper.



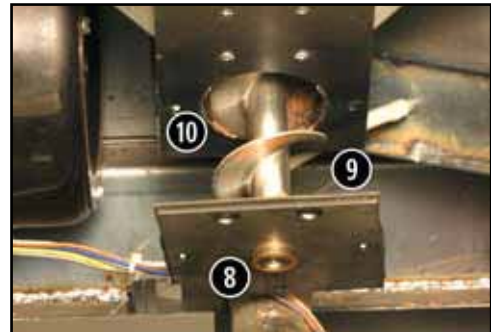
- h) Remove the white **4** and **5** yellow wire.
- i) Remove the auger motor. The motor may be tight, try wiggling it back and fourth **6**.



- j) Remove the 3, 7/16 Bolts **7** and auger plate.

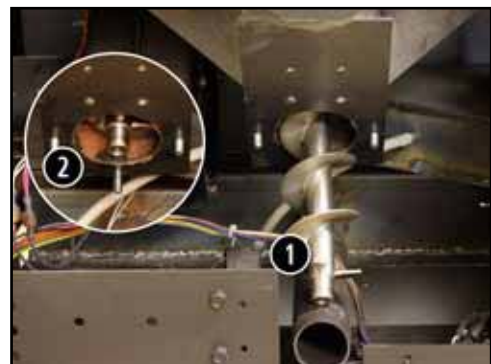


- k) Separate the auger plate and/or bushing **8** from the auger shaft by tapping the back **9** with a soft mallet. Remove and replace the auger plate gasket if needed at this time.
- l) Remove the auger **10**.



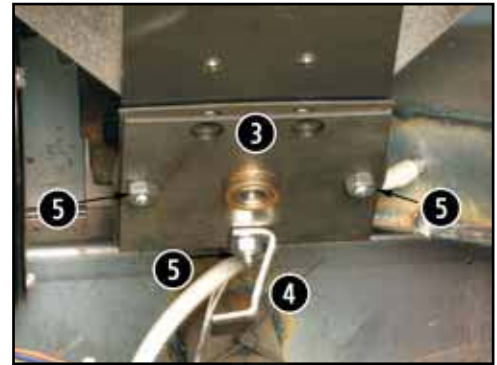
3-4 Auger and Auger Motor replacement

- a) Remove Auger and Auger Motor. See Auger and Auger Motor removal section 3-3.
- b) Replace the auger. Slide auger up the shaft and line up the set screw facing up **1**. Make sure the top of the auger shaft is sitting in the bushing **2** and the set screw is lined up in the hopper.



- c) Replace the auger plate **3**, the stopper **4** and 3, 7/16 Bolts. **5**

NOTE: Wait until you have the auger motor in place before tightening the stopper bolt.



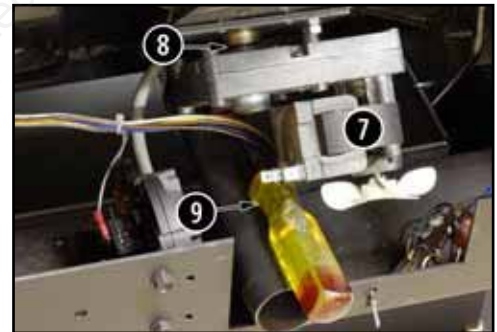
- d) Rotate the auger motor until the flat end of the shaft lines with the set screw. Flat side should face up from the view that is shown in the picture to the right. **6**

NOTE: You can rotate the auger motor shaft by plugging in the unit and running the auger motor until it lines up.



- e) Replace the auger motor. **7** Make sure it's pushed up all the way. **8**

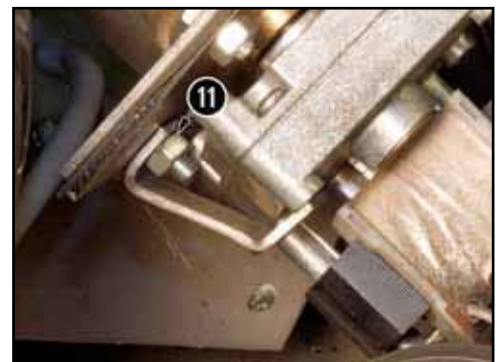
NOTE: This is a two man operation. You can wedge a screw driver between the auger motor and the intake pipe as seen in the picture to the right. **9**



- f) Tighten set screw **10** found at the base of the hopper.

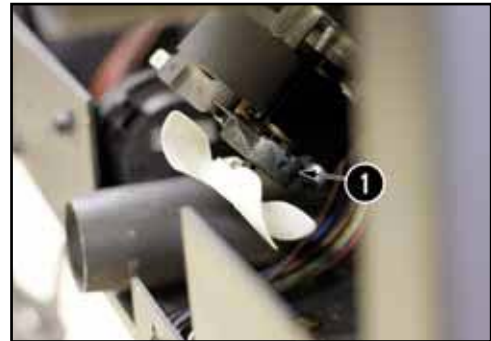


- g) Replace the stopper and tighten the bolt **11**.



3-5 Oiling your auger motor

- a) Unplug your stove.
- b) Remove the back rating plate cover. See Removing your back panel section 10-3.
- c) Locate and oil the auger motors oiling port **1**. The auger motor takes a light oil.



3-6 Replacing your auger gasket and auger bushing

- a) Unplug your stove.
- b) Remove the back rating plate cover. See Removing your back panel section 10-3.
- c) Remove your auger motor. See Auger and Auger Motor removal section 3-3.
- d) Remove and replace your auger gasket. **1**
- e) Remove and replace your auger bushing. **2**
- f) Replace your auger motor. See Auger and Auger Motor Replacement section 3-4.



3-7 Sealing your auger bushing

- a) Unplug your stove.
- b) Remove the back rating plate cover. See Removing your back panel section 10-3.
- c) Place a large bead of silicone around your bushing. **1**



4 Exhaust Fan and Exhaust Fan Gasket

NOTE: Replacement of the complete exhaust fan assembly is done under rare circumstances.

4-1 Removing the exhaust fan motor

- a) Unplug your stove
- b) Open the left side panel. (Damper side) See Opening the left side panel (Damper side) section 10-2.
- c) Remove the exhaust fan thermo-disk. See Remove your exhaust fan thermo-disk section 7-1.
- d) Cut off the zip tie. **1**
- e) Disconnect the blue **2** and the white **3** wire connected to the exhaust fan motor.

